

WHAT IS CLAIMED IS:

1 1. An apparatus comprising:

2 a charge pump having a capacity that is preset to a  
3 particular value; and

4 a measuring circuit to measure an actual capacity of the  
5 charge pump and to reset the capacity of the charge pump to a  
6 value based on the measured capacity.

7 2. The apparatus of claim 1 wherein an output of the charge  
8 pump is preset to operate at particular voltage and current  
9 levels.

10 3. The apparatus of claim 1 wherein the measuring circuit  
11 includes a temperature sensor.

12 4. The apparatus of claim 1 wherein the measuring circuit  
13 includes a voltage sensor to sense a voltage at an input of  
14 the charge pump.

15 5. The apparatus of claim 1 wherein the measuring circuit  
16 includes a voltage sensor to sense a voltage at an output of  
17 the charge pump.

18 6. The apparatus of claim 1 wherein the measuring circuit  
19 includes a current sensor to sense a current at an output of  
20 the charge pump.

1 7. An apparatus comprising:

2 an array of memory cells; and

3 a charge pump circuit coupled to the array of memory  
4 cells to drive the array of memory cells, the charge pump  
5 circuit comprising:

6 a charge pump having a capacity that is preset to a  
7 particular value, and

8 a measuring circuit to measure an actual capacity of  
9 the charge pump and to reset the capacity of the charge  
10 pump to a value based on the measured capacity.

1 8. The apparatus of claim 7 wherein an output of the charge  
2 pump is preset to operate at particular voltage and current  
3 levels.

1 9. The apparatus of claim 7 wherein the measuring circuit  
2 includes a temperature sensor.

1 10. The apparatus of claim 7 wherein the measuring circuit  
2 includes a voltage sensor to sense a voltage at an input of  
3 the charge pump.

1 11. The apparatus of claim 7 wherein the measuring circuit  
2 includes a voltage sensor to sense the voltage at an output of  
3 the charge pump.

12. The apparatus of claim 7 wherein the measuring circuit includes a current sensor to sense a current at an output of the charge pump.

13. A computer system comprising:

a central processor; and

a memory coupled to the central processor, the memory comprising:

an array of memory cells, and

a charge pump circuit coupled to the array of memory cells to drive the array of memory cells, the charge pump circuit comprising:

a charge pump having a capacity that is preset to a particular value, and

a measuring circuit to measure an actual capacity of the charge pump and to reset the capacity of the charge pump to a value based on the measured capacity.

14. The computer system of claim 13 wherein an output of the charge pump is preset to operate at particular voltage and current levels.

15. The computer system of claim 13 wherein the measuring circuit includes a temperature sensor.

1 16. The computer system of claim 13 wherein the measuring  
2 circuit includes a voltage sensor to sense a voltage at an  
3 input of the charge pump.

1 17. The computer system of claim 13 wherein the measuring  
2 circuit includes a voltage sensor to sense a voltage at an  
3 output of the charge pump.

1 18. The computer system of claim 13 wherein the measuring  
2 circuit includes a current sensor to sense the current at an  
3 input of the charge pump.

1 19. A method comprising:

2 measuring a capacity of a charge pump; and  
3 resetting the capacity of the charge pump to a value  
4 based on the measured capacity.  
5

1 20. The method of claim 19 further comprising presetting a  
2 capacity of the charge pump to a particular value.

3 21. The method of claim 20 wherein presetting a capacity of  
4 the charge pump to a particular value includes presetting the  
5 charge pump to particular voltage and current levels.

1 22. The method of claim 19 wherein measuring the capacity of  
2 the charge pump includes measuring a temperature of the charge  
3 pump.

1 23. The method of claim 19 wherein measuring the capacity of  
2 the charge pump includes measuring a voltage at an input of  
3 the charge pump.

1 24. The method of claim 19 wherein measuring the capacity of  
2 the charge pump includes measuring a voltage at an output of  
3 the charge pump.

1 25. The method of claim 19 wherein measuring the capacity of  
2 the charge pump includes measuring a current at an output of  
3 the charge pump.